

a flexible backing plate bent around said convex surface of said base and having an acoustic impedance the same as that of said base, said flexible backing plate having opposed sides, one of which is bonded to the [curvilinear] convex surface of said base with an epoxy resin containing heavy metal powder to match the acoustic impedance of said base to said backing plate, and

an array of ultrasonic transducer elements disposed on the other side of said flexible backing plate, said array of transducer elements comprising a piezoelectric ceramic plate having opposed sides, electrode layers provided on the opposed sides of said [piezoelectrical] piezoelectric ceramic plate, and a matching layer formed on a selected of said electrode layers, said array having grooves cut through said piezoelectric ceramic plate, said electrode layers, said matching layer and a portion of the flexible backing plate to define individual transducer elements and to isolate said individual transducer elements . , and

a plurality of flexible printed circuit boards having electrical lead patterns sandwiched between said piezoelectric plate and said flexible backing plate and connected to respective of said transducer elements to supply drive pulses to said respective transducer elements.

Claim 5, line 1, change "curvilinear" to --convex--.

Please add new Claims 8-10 as follows:

3/. The convex array according to Claim 1, comprising:
said flexible printed circuit boards having grooves cut therethrough in correspondence with the grooves defining said transducer elements, to separate said lead patterns in correspondence with said respective transducer elements.

8
W
4/. The convex array according to Claim 1, wherein said flexible printed circuit boards have divergent tips which are bent around sides of said base such that the divergent tips are gathered and aligned parallel to a common line.

5
10/. The convex array according to Claim 3/
1/2, wherein said flexible printed circuit boards have divergent tips which are bent around sides of said base such that the divergent tips are gathered and aligned parallel to a common line.

REMARKS

Favorable consideration of this application as presently amended and in light of the following discussion is respectfully requested.

AB
Claims 1, 5, and 8-10 are presently active in this case, claims 1 and 5 having been amended, claims 2 and 3 cancelled, and claims 8-10 having been added by way of the present Amendment, claims 4 and 6 having previously been cancelled.

In the Official Action dated May 13, 1986 in parent U.S. Application Serial No. 679,058, claims 1, 2, 5 and 6 were finally